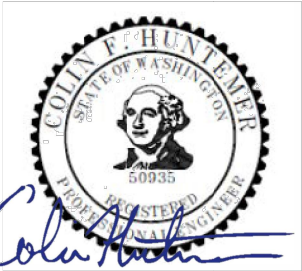


PROJECT LICENSED PROFESSIONAL CERTIFICATIONS

 <p>As a Professional Engineer in direct responsible charge of developing this contract, I certiy that all plans that contain my stamp have been developed under my supervision as a licensed professional.</p>	<p><i>Elmo Rajah</i></p> <p>Elmo Rajah</p> <p>Nov 9, 2022</p> <p>As a Professional Engineer in direct responsible charge of developing this contract, I certiy that all plans that contain my stamp have been developed under my supervision as a licensed professional.</p>	<p>As a Professional Engineer in direct responsible charge of developing this contract, I certiy that all plans that contain my stamp have been developed under my supervision as a licensed professional.</p>	<p>As a Professional Engineer in direct responsible charge of developing this contract, I certiy that all plans that contain my stamp have been developed under my supervision as a licensed professional.</p>
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NOTES:

THIS PLAN SET WAS DEVELOPED ELECTRONICALLY UNDER THE DIRECT SUPERVISION OF THE LICENSED PROFESSIONALS WHO HAVE AFFIXED THEIR SIGNATURE TO THIS PAGE.

THIS SHEET SERVES AS THE CERTIFICATION BY THE ABOVE LICENSED PROFESSIONALS OF ALL SHEETS IN THIS PLAN SET WHERE THEIR STAMPS AND SIGNATURES APPEAR.



San Juan County
Public Works Department
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Washington State
Department of Transportation
WASHINGTON STATE FERRIES

PLOTTED: 11/9/2022

DRAWN:

SURVEYED:

DESIGNED:

REVIEWED:

CERTIFICATION SHEET

ORCAS LANDING PHASE II

MARINE FACILITY IMPROVEMENTS

MARK	DATE	REVISION

PROJECT

CRP No. 021602

ROAD No. 004

MILE POST 0.02

SHEET

CT01.00

SUMMARY OF QUANTITIES

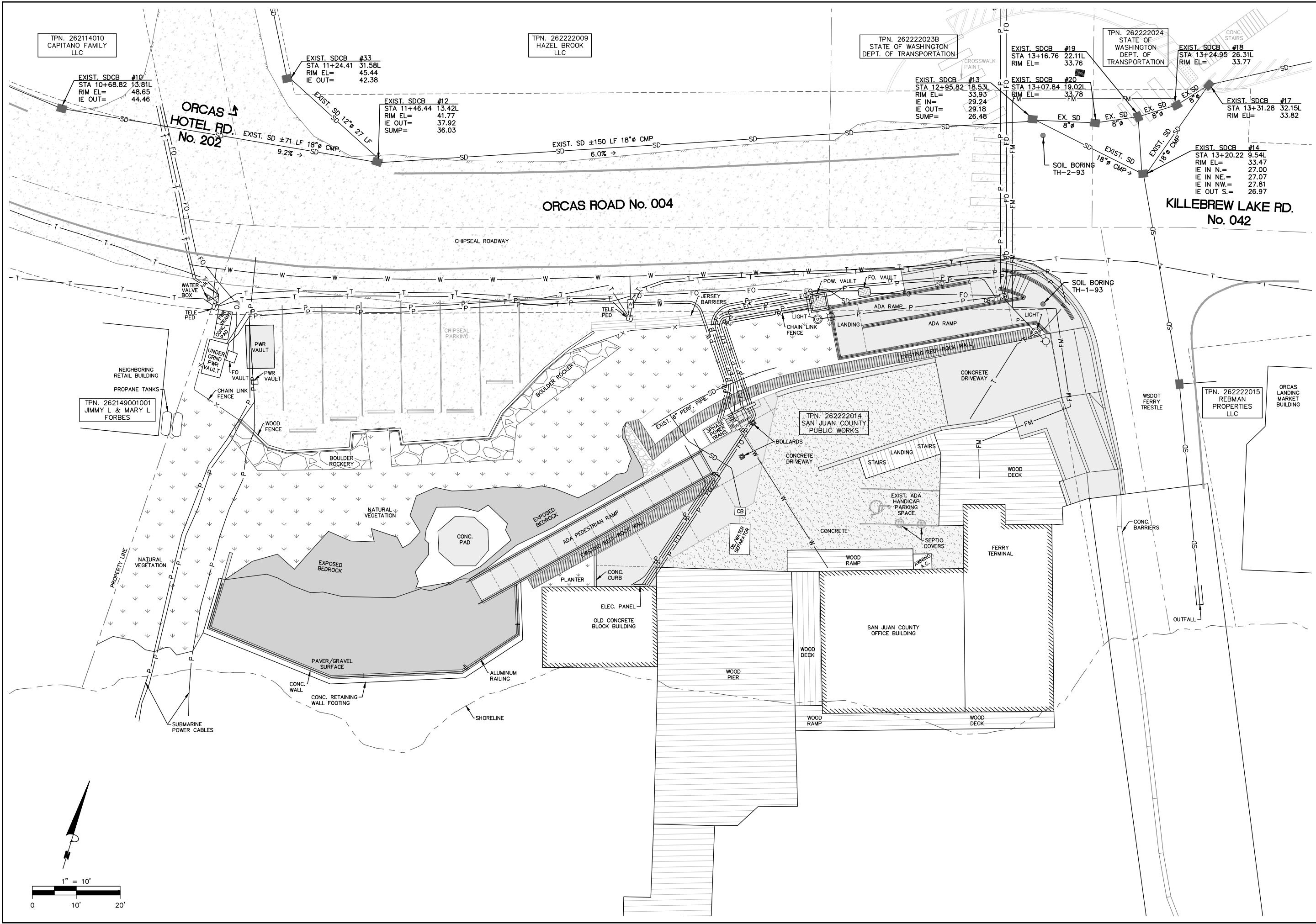
DOT_RGG900

11/8/2022

ITEM NO	TOTAL QUANTITY	SUB-TOTAL *	SUB-TOTAL **	STD. ITEM NO.	UNIT	ITEM	GROUP 1	GROUP 2													
		SECTION I-07.2(1) OF STANDARD SPECS	SECTION I-07.2(2) OF STANDARD SPECS				ORCAS ADA PHASE II	THIRD PARTY DAMAGES													
						PREPARATION															
1	LUMP SUM		LUMP SUM	0001	L.S.	MOBILIZATION	L.S.														
2	5000.00		5000.00	0038	DOL	ARCHAEOLOGICAL AND HISTORICAL SALVAGE	5,000.00														
3	LUMP SUM		LUMP SUM	0050	L.S.	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	L.S.														
						GRADING															
4	30.00		30.00	0310	C.Y.	ROADWAY EXCAVATION INCL. HAUL	30.00														
5	380.00		380.00	0332	S.Y.	PAVEMENT REPAIR EXCAVATION INCL. HAUL	380.00														
						DRAINAGE															
6	28.00		28.00	3016	L.F.	HIGH-DENSITY POLYETHYLENE (HDPE) PIPE 12 IN. DIAM.	28.00														
7	85.00		85.00		L.F.	CEMENT CONC VALLEY GUTTER	85.00														
						STORM SEWER															
8	1.00		1.00	3090	EACH	CATCH BASIN TYPE TYPE 1L	1.00														
9	1.00		1.00	3091	EACH	CATCH BASIN TYPE 1	1.00														
						STRUCTURE															
10	445.00		445.00	4006	C.Y.	STRUCTURE EXCAVATION CLASS A INCL. HAUL	445.00														
11	37.00		37.00		C.Y.	ROCK EXCAVATION INCL. HAUL	37.00														
						SURFACING															
12	860.00		860.00	5100	TON	CRUSHED SURFACING BASE COURSE	860.00														
						CEMENT CONCRETE PAVEMENT															
13	25.00		25.00	5625	C.Y.	CEMENT CONC. PAVEMENT	25.00														
						HOT MIX ASPHALT															
14	48.00		48.00	5739	TON	HMA FOR PAVEMENT REPAIR CL. 1/2 IN. PG	48.00														
15	1600.00		1600.00	5835	DOL	COMPACTION PRICE ADJUSTMENT	1,600.00														
						EROSION CONTROL AND ROADSIDE PLANTING															
16	12700.00		12700.00	6490	DOL	EROSION/WATER POLLUTION CONTROL	12,700.00														
						TRAFFIC															
17	120.00		120.00	6700	L.F.	CEMENT CONC. TRAFFIC CURB AND GUTTER	120.00														
18	215.00		215.00	6707	L.F.	CEMENT CONC. PEDESTRIAN CURB	215.00														
19	660.00		660.00	6806	L.F.	PAINT LINE	660.00														
20	80.00		80.00	6856	S.F.	PAINTED CROSSWALK LINE	80.00														
21	LUMP SUM		LUMP SUM	6890	L.S.	PERMANENT SIGNING	L.S.														
22	LUMP SUM		LUMP SUM	6971	L.S.	PROJECT TEMPORARY TRAFFIC CONTROL	L.S.														
23	272.00		272.00	6821	L.F.	PAINTED CROSSHATCH MARKING	272.00														
						OTHER ITEMS															
24	LUMP SUM		LUMP SUM	7037	L.S.	STRUCTURE SURVEYING	L.S.														
25	LUMP SUM		LUMP SUM	7038	L.S.	ROADWAY SURVEYING	L.S.														
26	LUMP SUM		LUMP SUM	7042	L.S.	ADA FEATURES SURVEYING	L.S.														
27	118.00		118.00	7055	S.Y.	CEMENT CONC. SIDEWALK	118.00														
28	2.00		2.00	7058	EACH	CEMENT CONC. CURB RAMP TYPE TYPE PARALLEL A	2.00														
29	2.00		2.00	7058	EACH	CEMENT CONC. CURB RAMP TYPE PERPENDICULAR B	2.00														
30	4.00		4.00	9605	EACH	CONNECTION TO DRAINAGE STRUCTURE	4.00														
31	5.00		5.00	7725	DOL	REIMBURSEMENT FOR THIRD PARTY DAMAGE		5.00													
32	-1.00		-1.00	7728	DOL	MINOR CHANGE	-1.00														
33	-1.00		-1.00	7732	DOL	AGGREGATE COMPLIANCE PRICE ADJUSTMENT	-1.00														
34	LUMP SUM		LUMP SUM	7736	L.S.	SPCC PLAN	L.S.														
35	135.00		135.00	1945	L.F.	PEDESTRIAN HANDRAIL - ALUMINUM	135.00														
36	LUMP SUM		LUMP SUM	2805	L.S.	GENERAL ELECTRICAL	L.S.														
37	LUMP SUM		LUMP SUM		L.S.	REDI-ROCK GRAVITY BLOCK WALL	L.S.														

GROUP LEGEND	GROUP NUMBER	SR	CONTROL SECTION	TAX SCHEDULE	FUND PARTICIPANTS
	1	020	288300	**	STATE,SAN JUAN
	2	020	288300	**	STATE,SAN JUAN

I:\PROJECTS\ACTIVE\021602 ORCAS LANDING MARINE FACILITY IMPROVEMENTS\++ORCAS LANDING PHASE 2++\01 ENGINEERING\01 DESIGN\OLMFI PHASE 2 DESIGN LINES.DWG
S:\CPW Full.ctb
PLOTTED: 11/9/2022 3:00 PM



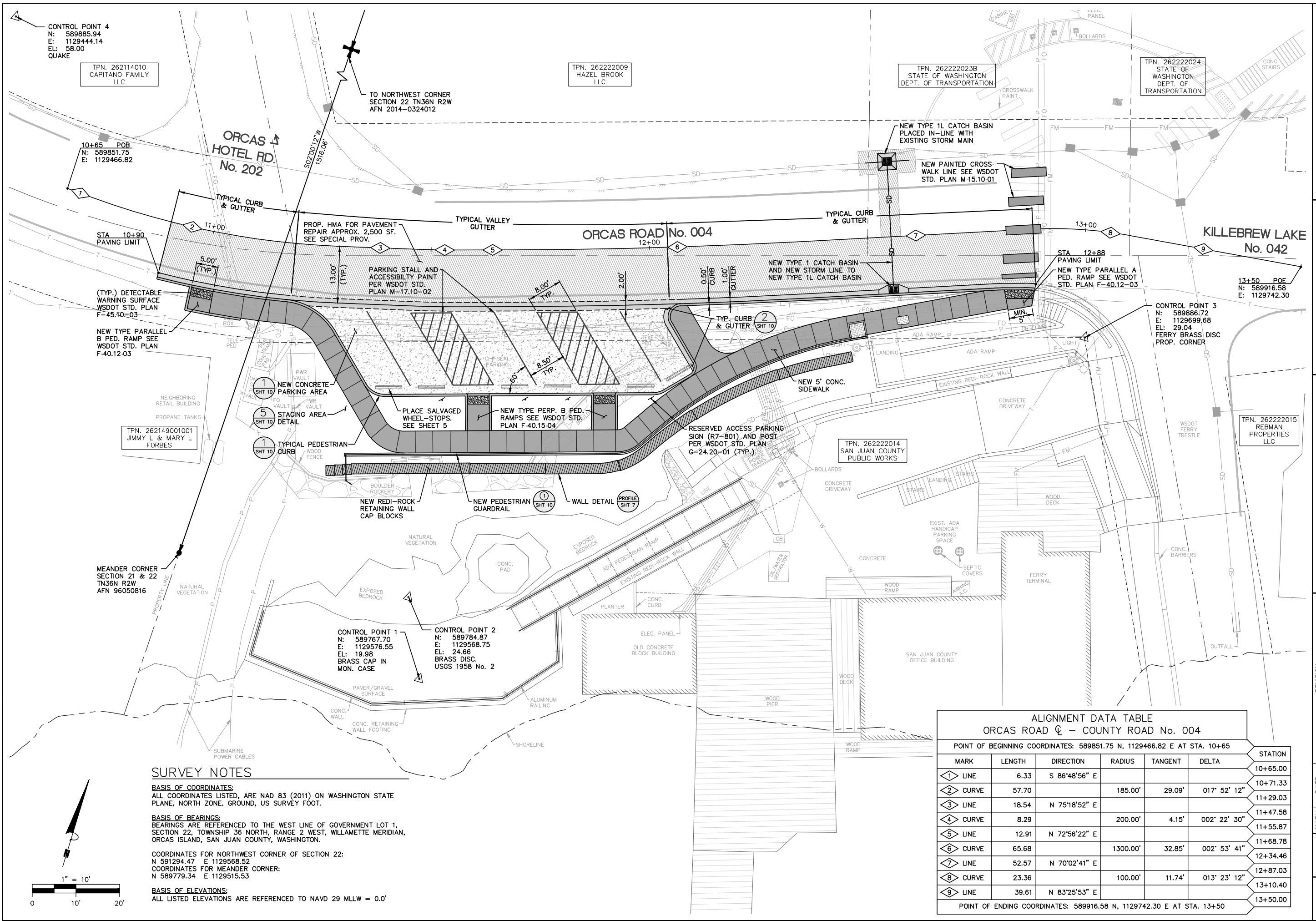
San Juan County
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Washington State
Department of Transportation
WASHINGTON STATE FERRIES

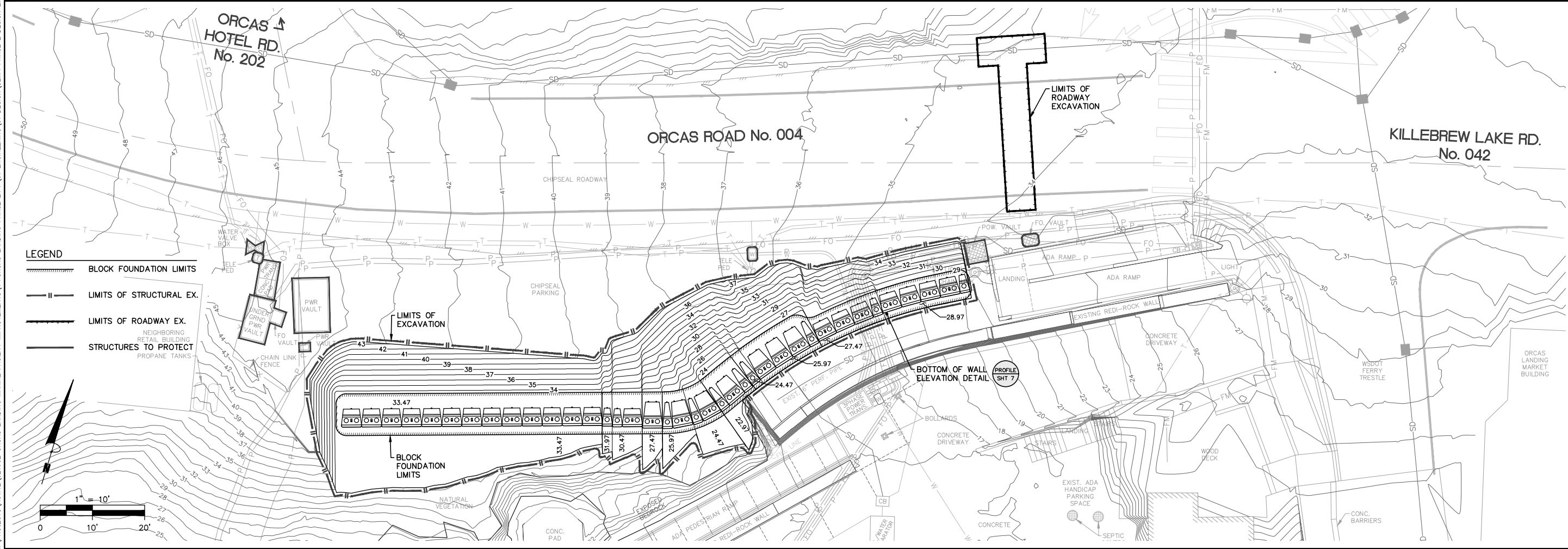
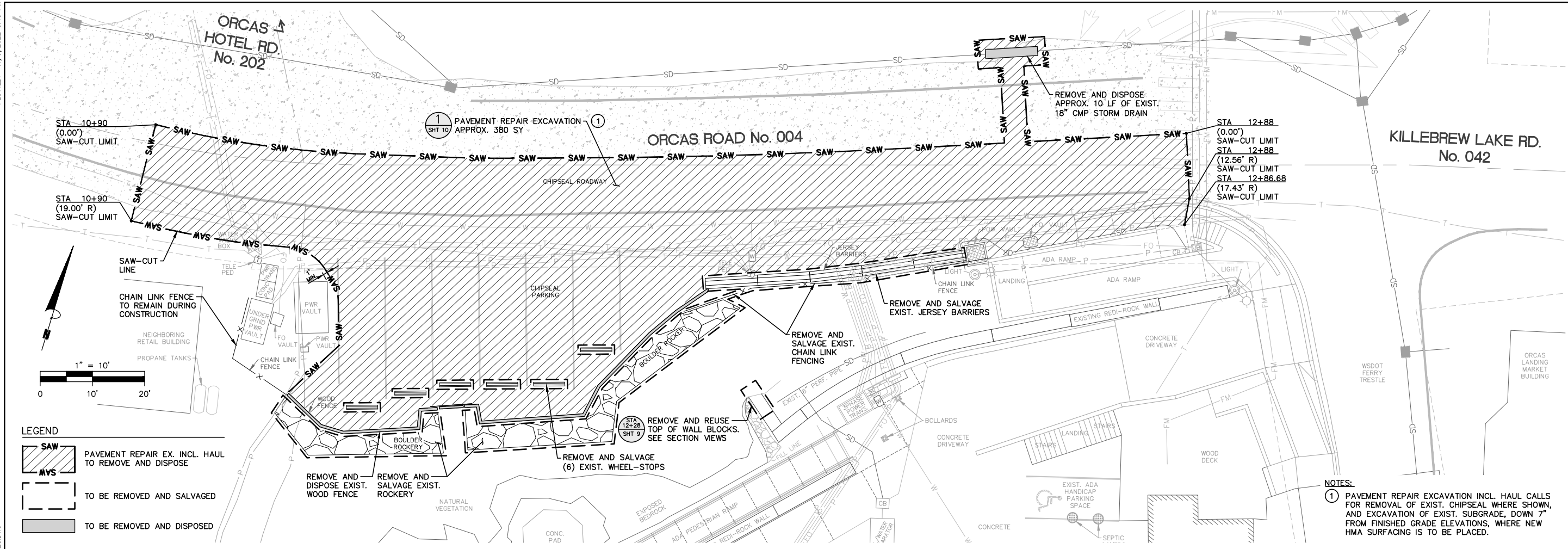
PLOTTED: 11/9/2022
DRAWN: SC
DESIGNED: SC
REVIEWED: CH

PROJECT
CRP No. 021602
ROAD No. 004
MILE POST 0.02

SHEET
3 OF 12



ALIGNMENT DATA TABLE						STATION
ORCAS ROAD \varnothing – COUNTY ROAD No. 004						
POINT OF BEGINNING COORDINATES: 589851.75 N, 1129466.82 E AT STA. 10+65						
MARK	LENGTH	DIRECTION	RADIUS	TANGENT	DELTA	
① LINE	6.33	S 86°48'56" E				10+65.00
② CURVE	57.70		185.00'	29.09'	017° 52' 12"	10+71.33
③ LINE	18.54	N 75°18'52" E				11+29.03
④ CURVE	8.29		200.00'	4.15'	002° 22' 30"	11+47.58
⑤ LINE	12.91	N 72°56'22" E				11+55.87
⑥ CURVE	65.68		1300.00'	32.85'	002° 53' 41"	11+68.78
⑦ LINE	52.57	N 70°02'41" E				12+34.46
⑧ CURVE	23.36		100.00'	11.74'	013° 23' 12"	12+87.03
⑨ LINE	39.61	N 83°25'53" E				13+10.40
POINT OF ENDING COORDINATES: 589916.58 N, 1129742.30 E AT STA. 13+50						13+50.00



San Juan County

Public Works Department

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Washington State

Department of Transportation

WASHINGTON STATE FERRIES

11/9/2022

DRAWN: SC

SURVEYED: SC

DESIGNED: SC

REVISED: CH

COLIN F. HUNTEVER

COUNTY ENGINEER

PROJECT

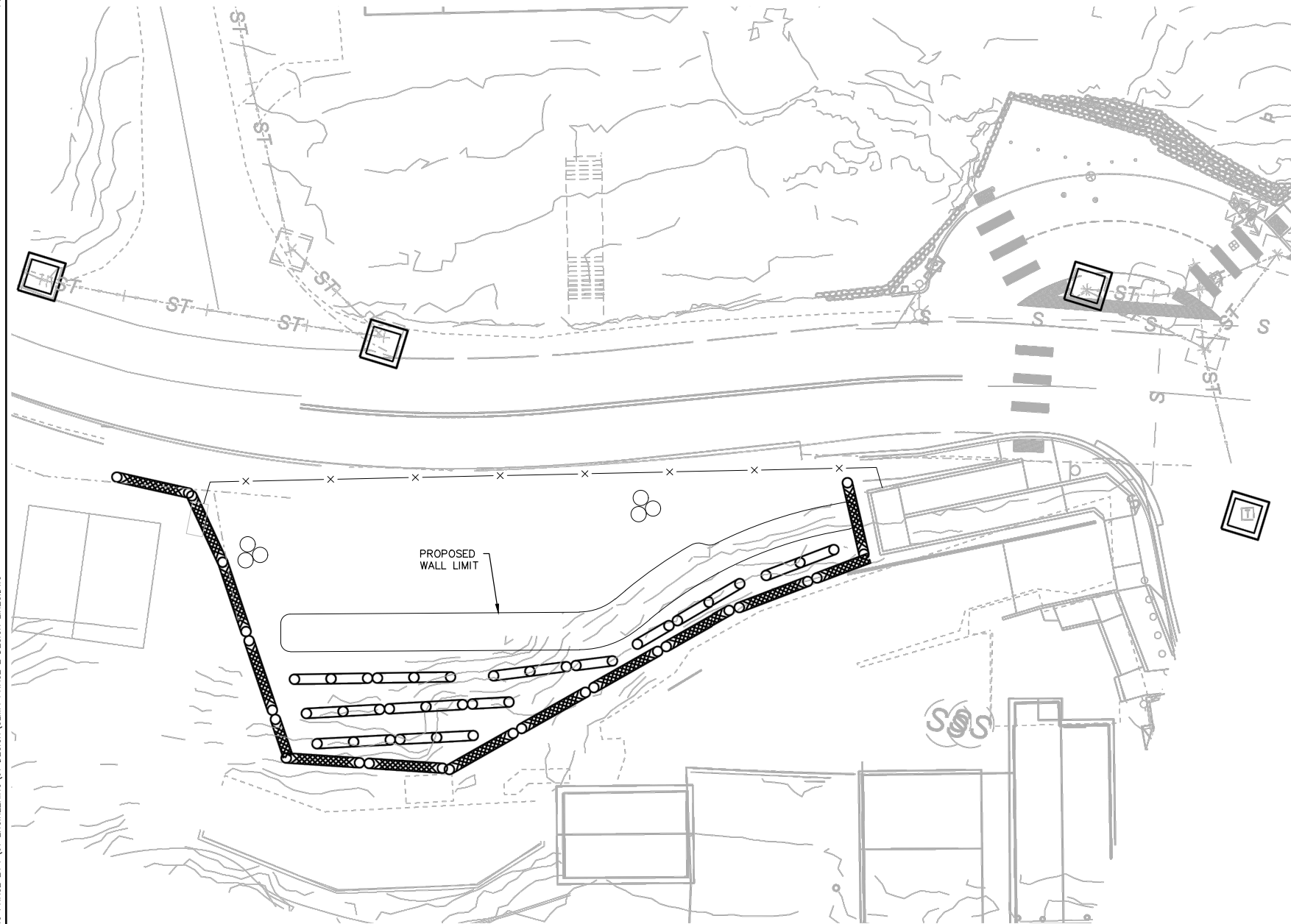
CRP No. 021602

ROAD No. 004

MILE POST 0.02

SHEET

5 OF 12



LEGEND



STORM DRAIN INLET PROTECTION PER STD PLAN
I-40.20.00



SPILL KIT TYP.



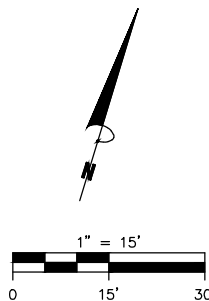
TEMPORARY CHAIN LINK- THE LIMIT SHALL BE
DETERMINED BY CONTRACTOR AND PROJECT ENGINEER



STRAW WATTLE



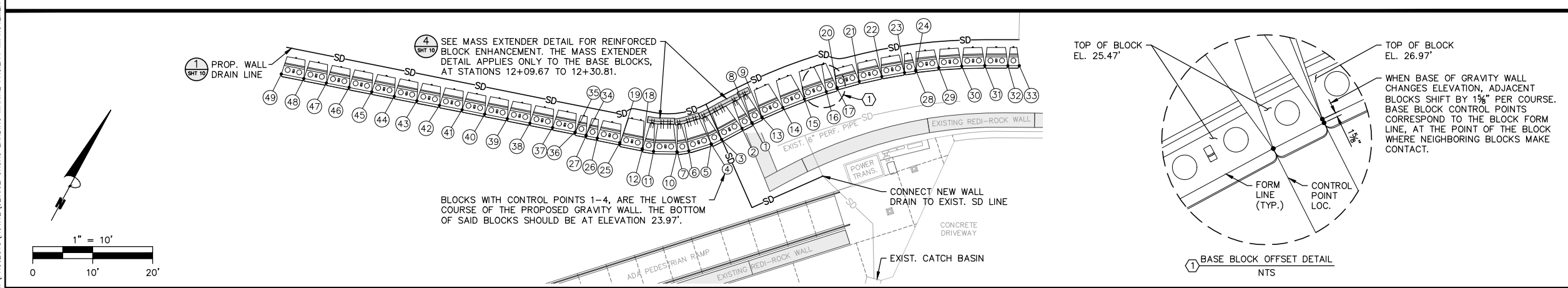
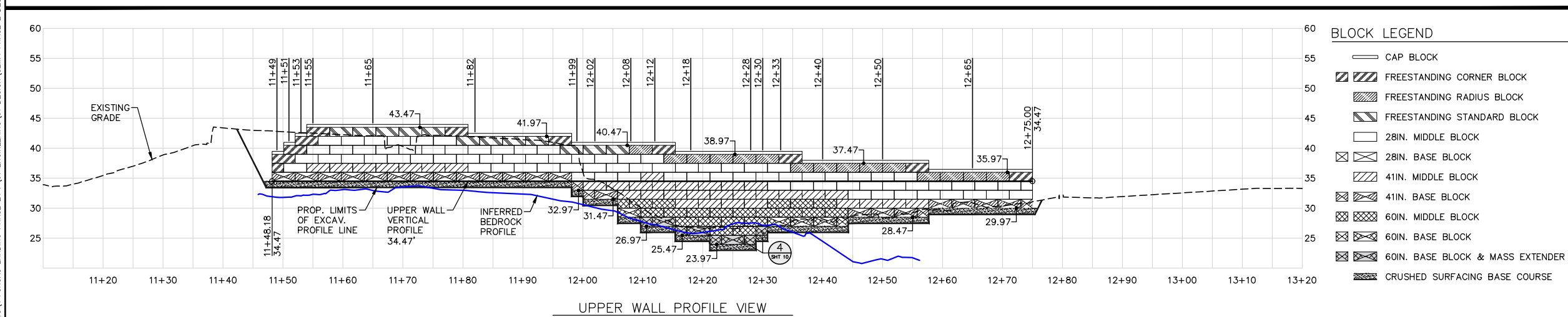
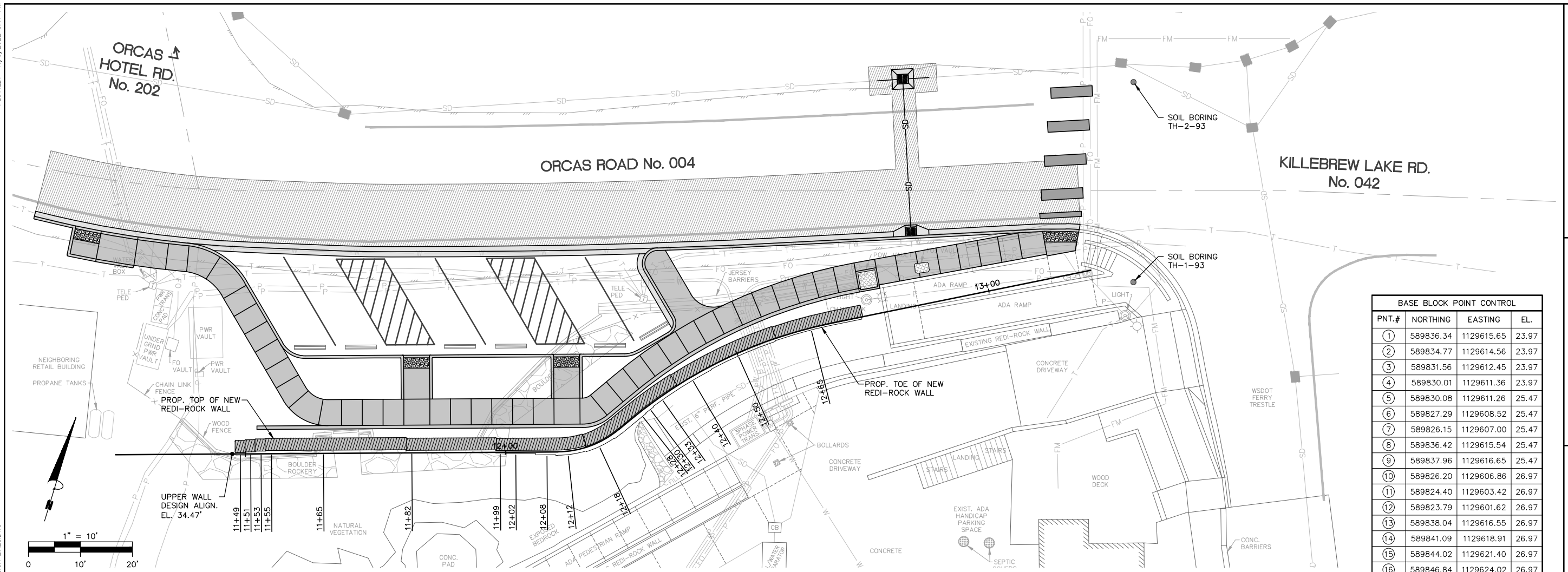
☐ COMPOST SOCK



GENERAL NOTES

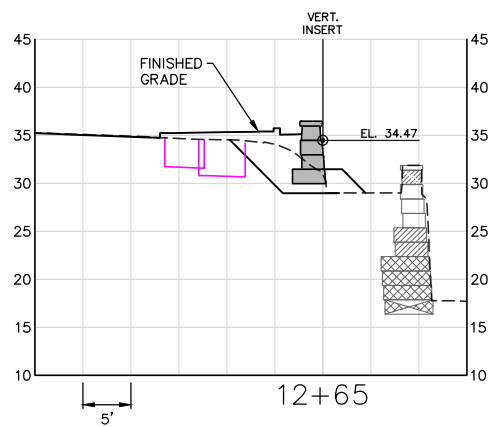
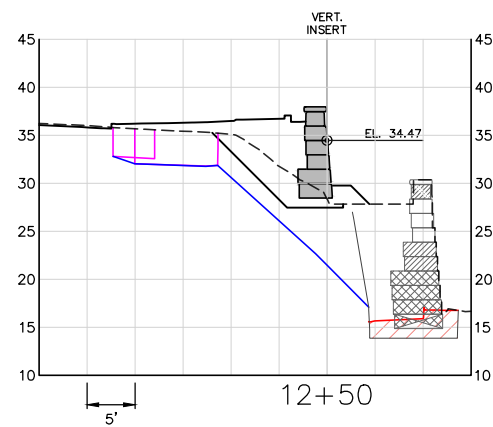
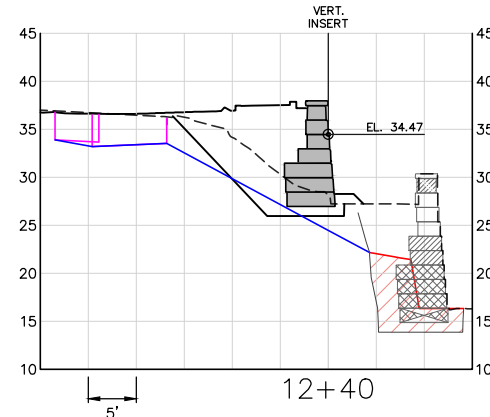
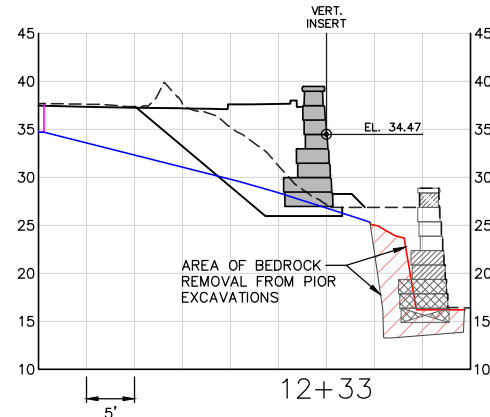
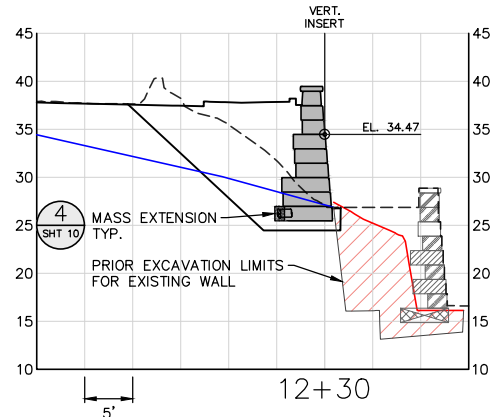
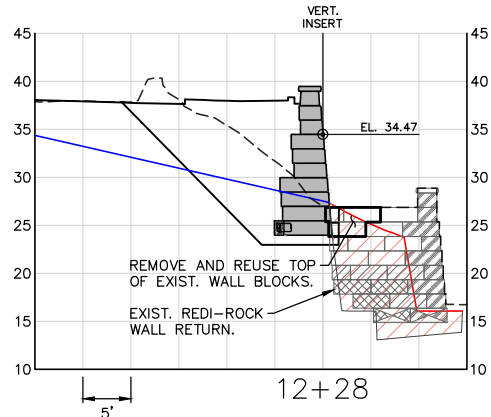
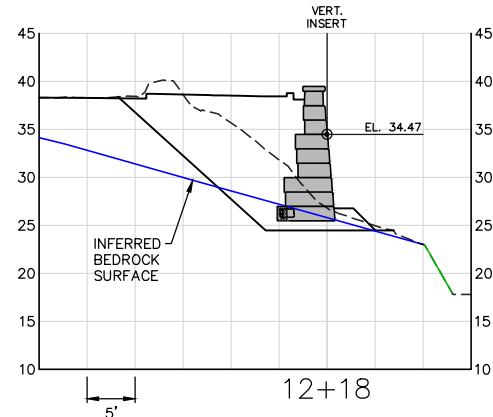
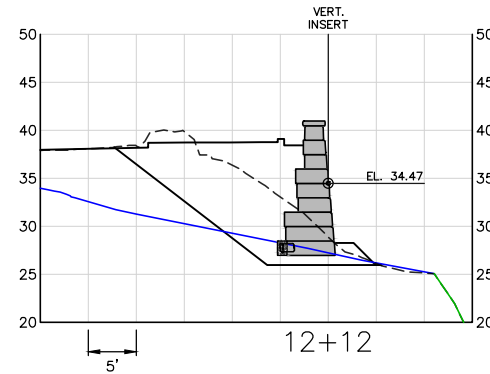
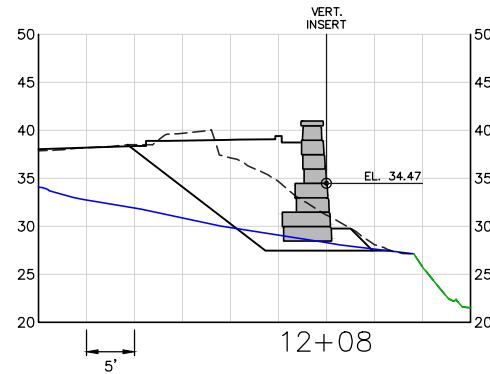
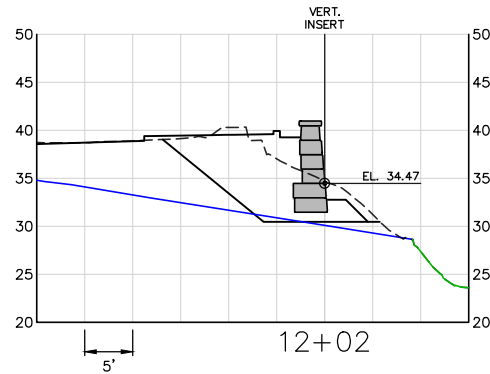
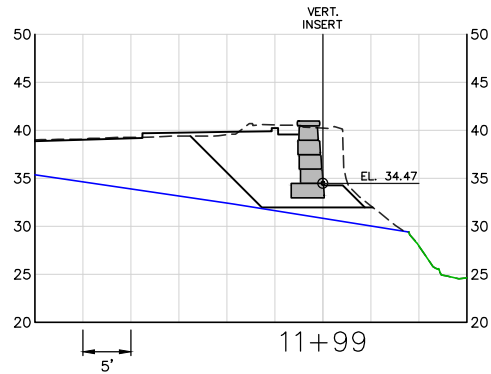
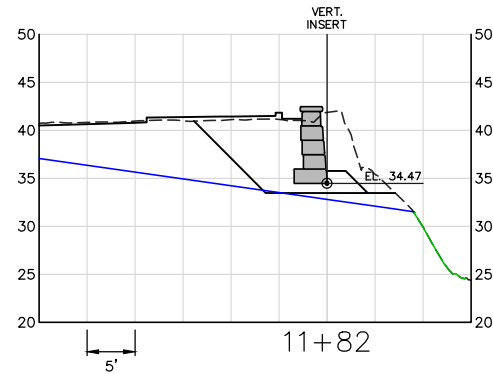
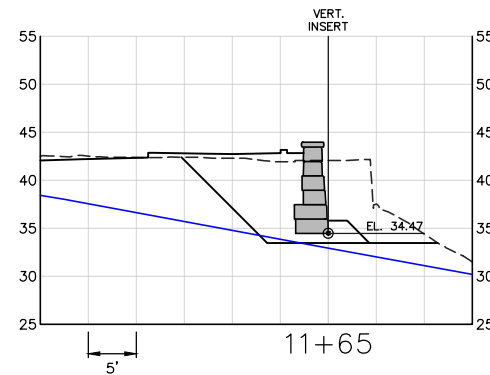
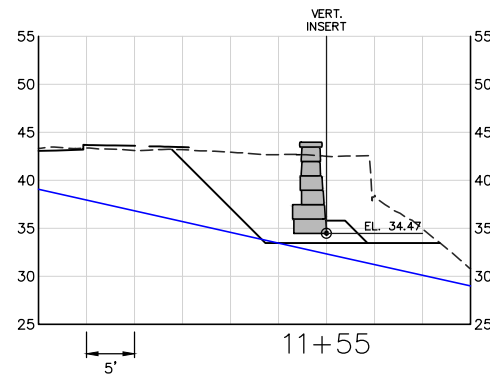
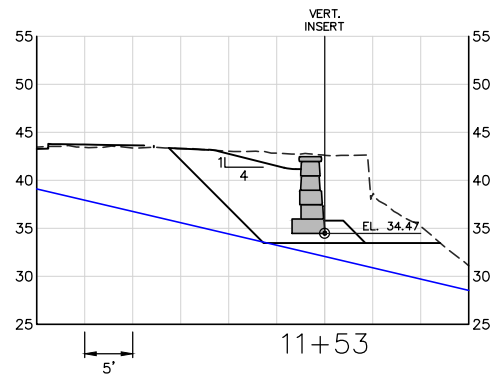
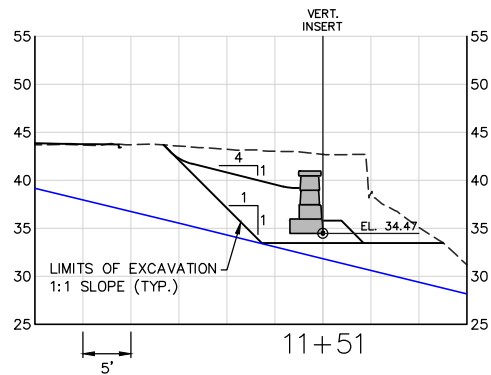
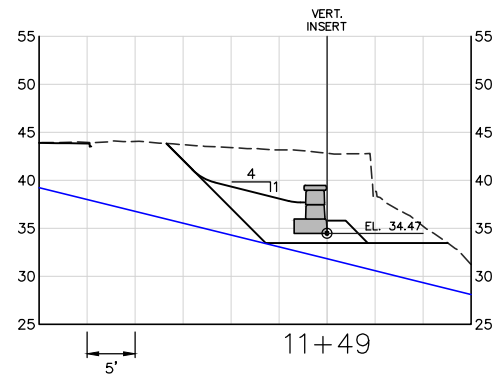
1. THE CONTRACTOR SHALL MODIFY THE TESC PLAN INCLUDED IN THE CONTRACT TO MEET THE CONTRACTOR'S OPERATIONS. SEE SPECIAL PROVISIONS.
2. THE CONTRACTOR SHALL USE ALL REASONABLE MEASURES TO MINIMIZE THE IMPACTS OF CONSTRUCTION ACTIVITY ON WATERS OF THE STATE. WATER QUALITY CONSTITUENTS OF PARTICULAR CONCERN ARE TURBIDITY, SUSPENDED SEDIMENTS, SETTLEABLE SOLIDS, OIL AND GREASE.
3. THE CONTRACTOR SHALL USE PROPER EROSION AND SEDIMENT CONTROL PRACTICES ON THE CONSTRUCTION SITE AND CONSTRUCTION STAGING AREAS TO PREVENT EROSION IN AND DOWNHILL OF DISTURBED AREAS, AND TO PREVENT THE DISCHARGE OF UPLAND SEDIMENTS OR SEDIMENT-LADEN WATER INTO WATER BODIES, AND LOCAL DRAINAGE SYSTEMS.
4. THE MEASURES SHOWN ON THESE PLANS ARE THE MINIMUM THAT ARE REQUIRED FOR THE ANTICIPATED SITE CONDITIONS. THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES AS NEEDED DUE TO WEATHER, AND/OR FIELD CONDITIONS, AND/OR CONSTRUCTION ACTIVITIES.
5. THE CONTRACTOR SHALL NOT DISCHARGE TURBID WATER GENERATED FROM CONSTRUCTION ACTIVITIES, DIRECTLY TO ANY STREAMS, STORM WATER SYSTEM INLETS, OR DRAINAGE DITCHES BEFORE THE SOLIDS HAVE SETTLED OUT OF THE WATER .
6. THE CONTRACTOR'S ESC LEAD SHALL PROVIDE WEEKLY INSPECTION AND MAINTENANCE OF ALL TESC MEASURES. THE CONTRACTOR SHALL MAINTAIN TESC MEASURES IN WORKING CONDITION AT ALL TIMES. AND IMMEDIATELY REPAIR, REPLACE, AND INSTALL ADDITIONAL MEASURES SO THAT THEY ARE EFFECTIVE IN PREVENTING EROSION AND SEDIMENTATION.
7. AFTER ANY 24-HOUR RUNOFF-PRODUCING EVENT, THE CONTRACTOR'S ESC LEAD SHALL INSPECT TESC MEASURES FOR INTEGRITY. ANY FAILURE OF THE TESC MEASURES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND REPAIRED IMMEDIATELY. THE INSPECTION FREQUENCY FOR TEMPORARILY STABILIZED, INACTIVE SITES WILL BE REDUCED TO ONCE EVERY CALENDAR MONTH. APPROPRIATE BMPS SHALL BE APPLIED PER PROJECT TESC PLAN AND REVISIONS.
8. THE CONTRACTOR'S ESC LEAD WILL REVIEW AND MODIFY THE TESC PLANS ON AN AS-NEEDED BASIS FOR THE CONSTRUCTION METHODS USED. ANY BMP MODIFICATION CHANGE IN THE FIELD SHALL BE SHOWN ON THE TESC PLANS WITH RED COLORED PEN ACCOMPANIED BY DATE OF THE CHANGE.
9. COPIES OF ALL PERMITS SHALL BE KEPT ON THE JOB SITE AND READILY AVAILABLE FOR REFERENCE BY AGENCY PERSONNEL, THE CONSTRUCTION SUPERINTENDENT, CONSTRUCTION MANAGERS AND LEAD WORKERS, AND STATE AND LOCAL GOVERNMENT INSPECTORS.
10. THE CONTRACTOR SHALL PREPARE A PROJECT-SPECIFIC SPILL PREVENTION, CONTROL, AND COUNTERMEASURE (SPCC) PLAN IN ACCORDANCE WITH SECTION 1-07.15(1).
11. THE TESC FACILITIES SHOWN ON THIS PLAN SHALL BE CONSTRUCTED PRIOR TO THE GRADING TO PREVENT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES FOLLOWING CONSTRUCTION, THE CONTRACTOR SHALL REMOVE ANY SILT FENCE, CHECK DAMS, SEDIMENT TRAPS OR SETTLING BASINS AND THEIR ASSOCIATED TEMPORARY DIVERSION DITCHES. SEDIMENT SHALL NOT BE ALLOWED TO ENTER ANY STREAM OR DITCH AS A RESULT OF RUNOFF THAT MAY OCCUR AFTER CONSTRUCTION IS COMPLETED.
12. THE CONTRACTOR SHALL INSTALL INLET PROTECTION AS NECESSARY TO ALL CATCH BASINS THAT RECEIVE STORMWATER RUNOFF WITHIN THE PROJECT AREA AND THAT MAY OR MAY NOT BE SHOWN ON THE TESC PLANS
13. THE CONTRACTOR SHALL MAINTAIN CITY STREETS, PAVED TRAILS, AND SHOULDERS WITH STREET SWEEPING AS NECESSARY TO REMOVE CONSTRUCTION GENERATED SEDIMENT. THE CONTRACTOR SHALL NOT DISCHARGE ANY CLEANING SOLVENTS OR CHEMICALS UTILIZED FOR TOOL OR EQUIPMENT CLEANING TO THE GROUND. REFUELING OF EQUIPMENT SHALL BE CONDUCTED AWAY FROM THE DRAINAGE FACILITIES AND DONE IN SUCH A MANNER AS TO PREVENT SPILLS FROM ENTERING THE GROUNDWATER OR WATER BODIES (INCLUDING WETLANDS). SPILLS SHOULD BE PREVENTED FROM HITTING THE GROUND PER THE TESC PLAN.
14. THE CONTRACTOR SHALL PROPERLY DISPOSE OF ALL CONSTRUCTION DEBRIS IN AN APPROVED AND PERMITTED LANDFILL FACILITY. THE CONTRACTOR SHALL PROVIDE THE ENGINEER THE LOCATION OF ALL DISPOSAL SITES TO BE USED. PRIOR TO WASTE BEING HAULED, PROVIDE COPIES OF VALID PERMITS AND APPROVALS FOR THE SITES.
15. THE CONTRACTOR SHALL CONTROL AND DISPOSE OF ANY PROCESS WATER GENERATED FROM PAVEMENT SAW CUTTING PER PROJECT PERMIT CONDITION
16. ALL DRAINAGE STRUCTURES WITHIN WORK ZONE SHALL BE CLEANED UP ON COMPLETION OF PROJECT
17. THE CONTRACTOR SHALL IMPLEMENT FUGITIVE DUST CONTROL MEASURE DURING CONSTRUCTION
18. CONTROLLING EROSION AND SEDIMENT AT THE CONSTRUCTION ENTRANCE AND THE STREET SHALL BE REQUIRED PER STANDARD SPECIFICATION 8-01.3(7) AND 8-01.3(7)
19. THE DISTURBED SOIL SHALL NOT BE EXPOSED MORE THAN THE LIMITS BELOW:
OCTOBER 1 THROUGH APRIL 2-DAYS MAXIMUM.
MAY 1 THROUGH SEPTEMBER 7-DAYS MAXIMUM.

[illegible]



BASE BLOCK POINT CONTROL			
PNT.#	NORTHING	EASTING	EL.
①	589836.34	1129615.65	23.97
②	589834.77	1129614.56	23.97
③	589831.56	1129612.45	23.97
④	589830.01	1129611.36	23.97
⑤	589830.08	1129611.26	25.47
⑥	589827.29	1129608.52	25.47
⑦	589826.15	1129607.00	25.47
⑧	589836.42	1129615.54	25.47
⑨	589837.96	1129616.65	25.47
⑩	589826.20	1129606.86	26.97
⑪	589824.40	1129603.42	26.97
⑫	589823.79	1129601.62	26.97
⑬	589838.04	1129616.55	26.97
⑭	589841.09	1129618.91	26.97
⑮	589844.02	1129621.40	26.97
⑯	589846.84	1129624.02	26.97
⑰	589848.19	1129625.36	26.97
⑱	589823.92	1129601.55	28.47
⑲	589822.78	1129597.88	28.47
⑳	589848.31	1129625.25	28.47
㉑	589850.95	1129628.05	28.47
㉒	589853.48	1129630.96	28.47
㉓	589855.86	1129633.99	28.47
㉔	589856.99	1129635.52	28.47
㉕	589823.03	1129597.78	31.47
㉖	589821.89	1129594.11	31.47
㉗	589821.33	1129592.29	31.47
㉘	589857.10	1129635.44	29.97
㉙	589859.29	1129638.61	29.97
㉚	589861.34	1129641.87	29.97
㉛	589863.24	1129645.22	29.97
㉜	589865.06	1129648.60	29.97
㉝	589865.97	1129650.27	29.97
㉞	589821.45	1129592.23	32.97
㉟	589820.89	1129590.42	32.97
㊱	589821.01	1129590.38	34.47
㊲	589819.88	1129586.71	34.47
㊳	589818.74	1129583.04	34.47
㊴	589817.60	1129579.37	34.47
㊵	589816.46	1129575.69	34.47
㊶	589815.32	1129572.02	34.47
㊷	589814.18	1129568.35	34.47
㊸	589813.04	1129564.68	34.47
㊹	589811.91	1129561.01	34.47
㊺	589810.77	1129557.34	34.47
㊻	589809.63	1129553.67	34.47
㊼	589808.49	1129550.00	34.47
㊽	589807.35	1129546.33	34.47
㊾	589806.21	1129542.66	34.47

I:\PROJECTS\ACTIVE\021602 ORCAS LANDING MARINE FACILITY IMPROVEMENTS\++ORCAS LANDING PHASE 2++\01 ENGINEERING\01 DESIGN\OLMFI PHASE 2 DESIGN LINES.DWG
S:\OPW Full.ctb
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BLOCK LEGEND - EXISTING WALL

- CAP BLOCK
- FREESTANDING CORNER BLOCK
- FREESTANDING STANDARD BLOCK
- 28IN. MIDDLE BLOCK
- 41IN. MIDDLE BLOCK
- 60IN. MIDDLE BLOCK
- 60IN. BASE BLOCK

BLOCK LEGEND - PROPOSED WALL

- CAP BLOCK
- FREESTANDING BLOCK
- 28IN. BLOCK
- 41IN. BLOCK
- 60IN. BLOCK
- 60IN. BASE BLOCK WITH MASS EXTENDER

SECTION LINE LEGEND

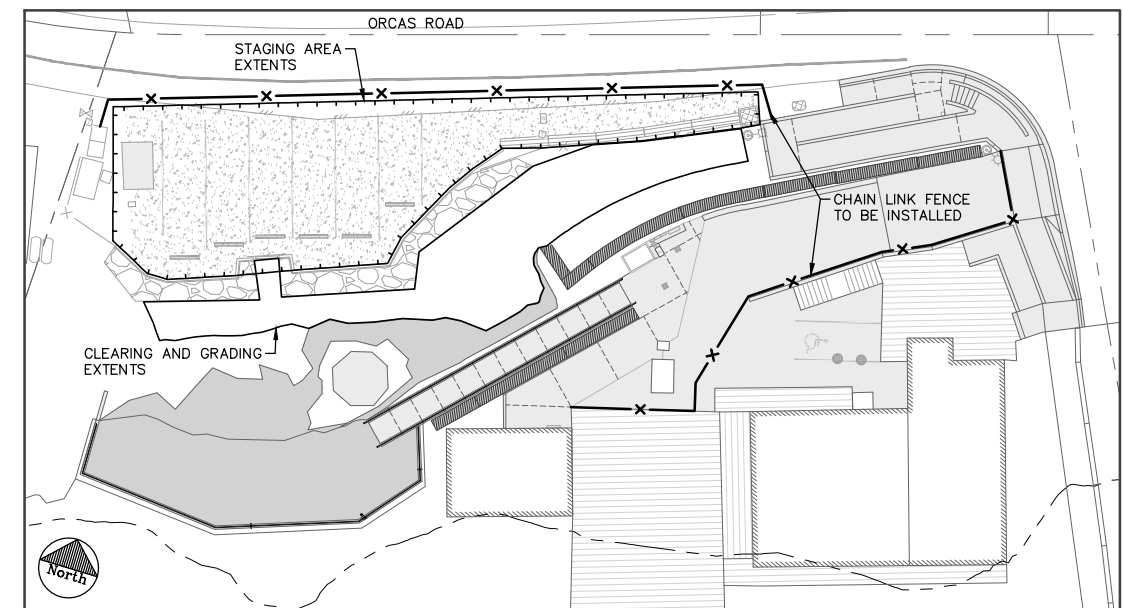
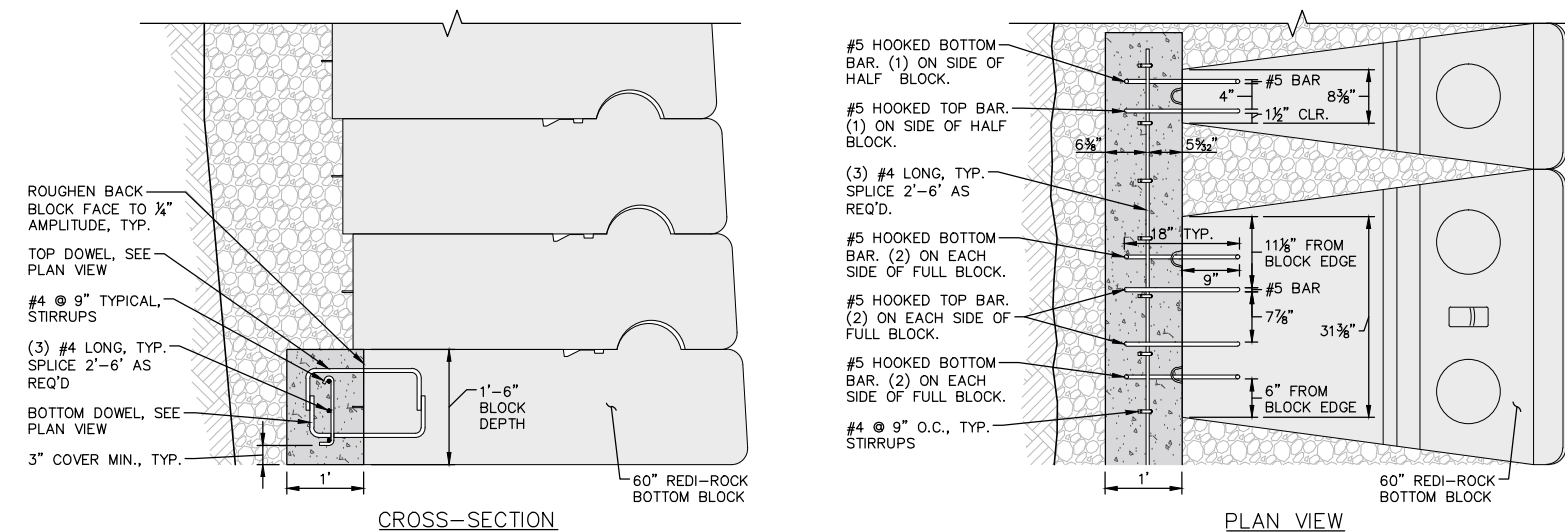
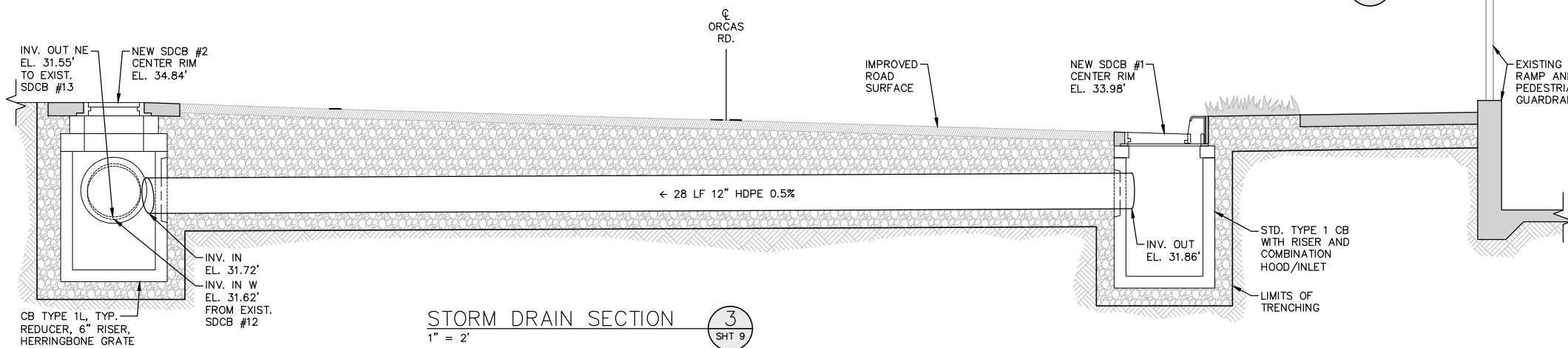
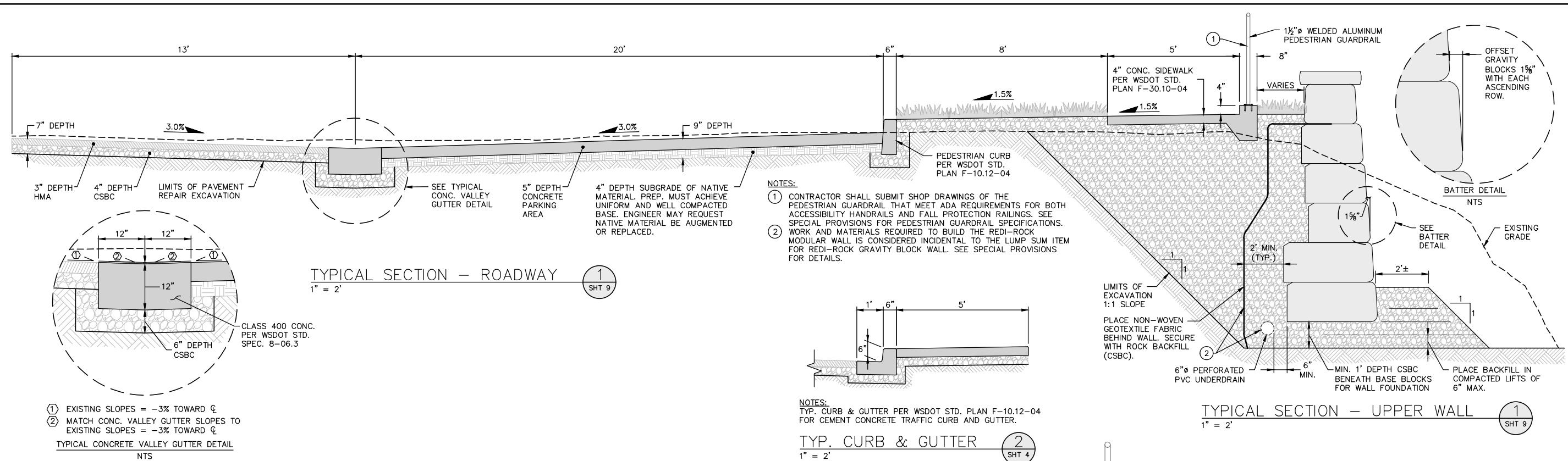
- EXISTING SURFACE
- PROPOSED EXCAVATION EXTENTS
- PROPOSED FINISHED SURFACE
- EXPOSED SURFACE BEDROCK
- INFERRED BEDROCK SURFACE
- PREVIOUS EXCAVATION EXTENTS
- BEDROCK REMOVED DURING PREVIOUS EXCAVATION
- PREVIOUS TRENCHING WITH NO BEDROCK ENCOUNTERED

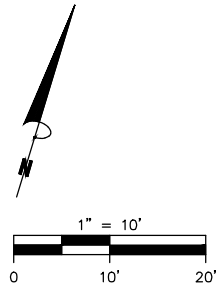
UPPER WALL SECTIONS

ORCAS LANDING PHASE II
MARINE FACILITY IMPROVEMENTS

MARK	DATE	REVISION

PROJECT
CRP No. 021602
ROAD No. 004
MILE POST 0.02





CONDUIT & CONDUCTOR SCHEDULE				
CONDUIT			CONDUCTORS	COMMENTS
TAG NO.	SIZE	TYPE		
1	1-1/2"	PVC 80	2#8, 1#10G XHHW-2	USE PVC 80



- [illegible]

